

10/582257

AP3 Rec'd PCT/PTO 09 JUN 2008

EXPRESS MAIL LABEL NO. EV668295865US

MPG/ejv 4082-75814-01 06/08/06 04902US

FIR FILTER

Abstract

A necessary number of initial stage element circuits, intermediate stage element circuits, and final stage element circuits are connected in cascade and combined in parallel arrangement simultaneously. The partial sum output data on the element circuits is synchronized with the inner partial sum data. In this way, it is possible to configure a high-speed high-order and high-precision FIR filter, i.e., a large-scale digital filter. Thus, it is possible to manufacture a high-order and high-precision FIR filter capable of high-speed operation of 2 GHz or above at a low cost.

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